IN THE CLAIMS:

1-55. Canceled.

- 56. (Currently amended) An isolated antibody, or a fragment or derivative thereof, which specifically binds to an epitope present within amino acids 175-536 of a human ECRTP/DEP-1 density enhanced phosphatase-1 polypeptide comprising an amino acid sequence as set forth in SEQ ID NO: 4, in a diluent or excipient pharmaceutically acceptable in humans.
- 57. (Previously presented) The isolated antibody fragment of claim 56, wherein the antibody fragment is selected from the group consisting of an Fab fragment, an Fab' fragment, an F(ab')₂ fragment, an F(v) fragment, and an single chain fragment variable (scFv) fragment.
- 58. (Previously presented) The isolated antibody of claim 56, which is a monoclonal antibody, or a fragment or derivative thereof.
- 59. (Currently amended) The isolated antibody of claim 58, which is monoclonal antibody ECRTPAb-1, having a molecular weight of about 150 kDa and which specifically binds to an epitope present within amino acids 175-536 of a human ECRTP/DEP-1 density enhanced phosphatase-1 polypeptide comprising an amino acid sequence as set forth in SEQ ID NO: 4.
- 60. (Previously presented) The isolated antibody of claim 58, wherein the antibody is human or humanized.
- 61. (Currently amended) The isolated antibody of claim 60, which binds an eight amino acid epitope having the consisting of a sequence QSRDTEVL (SEQ ID NO: 1).
 - 62. Canceled.
- 63. (Currently amended) An isolated antibody, or a fragment or derivative thereof, which specifically binds to an epitope <u>present in an extracellular domain</u> of an ECRTP/DEP-1 <u>density enhanced phosphatase-1</u> polypeptide <u>comprising an amino acid sequence as set forth in SEQ ID NO: 4 extracellular domain</u>, the epitope comprising the sequence QSRDTEVL (SEQ ID NO: 1).

- 64. (Previously presented) The isolated antibody fragment of claim 63, wherein the antibody fragment is selected from the group consisting of an Fab fragment, an Fab' fragment, an F(ab')₂ fragment, an F(v) fragment, and an single chain fragment variable (scFv) fragment.
- 65. (Previously presented) The isolated antibody of claim 63, which is a monoclonal antibody or a fragment or derivative thereof.
- 66. (Previously presented) The isolated antibody of claim 65, wherein the antibody is human or humanized.
- 67. (Previously presented) The isolated antibody of claim 63, in a pharmaceutically acceptable diluent or excipient.
- 68. (Currently amended) An isolated antibody, or a fragment or derivative thereof, which specifically binds an extracellular domain of an ECRTP/DEP-1 density enhanced phosphatase-1 polypeptide comprising an amino acid sequence as set forth in SEQ ID NO: 4 and wherein the antibody, fragment, or derivative thereof has activity in modulating angiogenesis, in a diluent or excipient pharmaceutically acceptable in humans.
- 69. (Previously presented) The isolated antibody of claim 68, or a fragment or derivative thereof, wherein the antibody, fragment, or derivative thereof has activity in modulating angiogenesis in an assay selected from the group consisting of a planar endothelial migration assay, an *in situ* transfection assay for migration, a cornea pocket angiogenesis assay, a chick chorioallantoic membrane assay, a proliferation assay, and an endothelial wound closure assay.
- 70. (Previously presented) The isolated antibody fragment of claim 68, wherein the antibody fragment is selected from the group consisting of an Fab fragment, an Fab' fragment, an F(ab')₂ fragment, an F(v) fragment, and an single chain fragment variable (scFv) fragment.
- 71. (Previously presented) The isolated antibody of claim 68, which is a monoclonal antibody, or a fragment or derivative thereof.
- 72. (Previously presented) The isolated antibody of claim 71, wherein the antibody is human or humanized.

- 73. (Previously presented) The isolated antibody of claim 68, in a diluent or excipient pharmaceutically acceptable in humans.
- 74. (Previously presented) The isolated antibody of claim 68, further having a binding specificity of a monoclonal antibody produced by a hybridoma cell line having American Type Culture Collection (ATCC) accession number HB12570.
- 75. (Previously presented) The isolated antibody of claim 68, wherein the monoclonal antibody is a monoclonal antibody produced by a hybridoma cell line having American Type Culture Collection (ATCC) accession number HB12570.
- 76. (Currently amended) An isolated antibody, or a fragment or derivative thereof, which specifically binds an epitope present within amino acids 175-536 of a human ECRTP/DEP-1 <u>density enhanced phosphatase-1</u> polypeptide <u>comprising an amino acid sequence as set forth in SEQ ID NO: 4</u>, and wherein the antibody, fragment, or derivative thereof has activity in modulating angiogenesis, in a diluent or excipient pharmaceutically acceptable in humans.
- 77. (Previously presented) The isolated antibody of claim 76, or a fragment or derivative thereof, wherein the antibody, fragment, or derivative thereof has activity in modulating angiogenesis in an assay selected from the group consisting of a planar endothelial migration assay, an *in situ* transfection assay for migration, a cornea pocket angiogenesis assay, a chick chorioallantoic membrane assay, a proliferation assay, and an endothelial wound closure assay.
- 78. (Previously presented) The isolated antibody fragment of claim 76, wherein the antibody fragment is selected from the group consisting of an Fab fragment, an Fab' fragment, an F(ab')₂ fragment, an F(v) fragment, and an single chain fragment variable (scFv) fragment.
- 79. (Previously presented) The isolated antibody of claim 76, which is a monoclonal antibody, or a fragment or derivative thereof.
- 80. (Currently amended) The isolated antibody of claim 79, which is monoclonal antibody ECRTPAb-1, having a molecular weight of about 150 kDa and which specifically binds to an epitope present within amino acids 175-536 of a human

ECRTP/DEP-1 <u>density enhanced phosphatase-1</u> polypeptide <u>comprising an amino acid</u> sequence as set forth in SEQ ID NO: 4.

- 81. (Previously presented) The isolated antibody of claim 79, wherein the antibody is human or humanized.
- 82. (Previously presented) The isolated antibody of claim 76, in a diluent or excipient pharmaceutically acceptable in humans.
- 83. (Currently amended) An isolated antibody, or a fragment or derivative thereof, which specifically binds to an epitope <u>present in an extracellular domain</u> of an ECRTP/DEP-1 <u>density enhanced phosphatase-1</u> polypeptide <u>comprising an amino acid sequence as set forth in SEQ ID NO: 4 extracellular domain</u>, the epitope comprising the sequence QSRDTEVL (SEQ ID NO: 1), wherein the antibody, fragment, or derivative thereof has activity in modulating angiogenesis.
- 84. (Previously presented) The isolated antibody of claim 83, or a fragment or derivative thereof, wherein the antibody, fragment, or derivative thereof has activity in modulating angiogenesis in an assay selected from the group consisting of a planar endothelial migration assay, an *in situ* transfection assay for migration, a cornea pocket angiogenesis assay, a chick chorioallantoic membrane assay, a proliferation assay, and an endothelial wound closure assay.
- 85. (Previously presented) The isolated antibody fragment of claim 83, wherein the antibody fragment is selected from the group consisting of an Fab fragment, an Fab' fragment, an F(ab')₂ fragment, an F(v) fragment, and an single chain fragment variable (scFv) fragment.
- 86. (Previously presented) The isolated antibody of claim 83, which is a monoclonal antibody or a fragment or derivative thereof.
- 87. (Previously presented) The isolated antibody of claim 86, wherein the antibody is human or humanized.
- 88. (Previously presented) The isolated antibody of claim 83, in a diluent or excipient pharmaceutically acceptable in humans.

89. (Previously presented) An isolated antibody having a binding specificity of an antibody produced by a hybridoma cell line having American Type Culture Collection (ATCC) accession number HB12570.

- 90. (Previously presented) The isolated antibody of claim 68, or a fragment or derivative thereof, wherein the activity in modulating angiogenesis is inhibition of angiogenesis.
- 91. (Previously presented) The isolated antibody of claim 76, or a fragment or derivative thereof, wherein the activity in modulating angiogenesis is inhibition of angiogenesis.
- 92. (Previously presented) The isolated antibody of claim 83, or a fragment or derivative thereof, wherein the activity in modulating angiogenesis is inhibition of angiogenesis.